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### Manipulation of microspheres and biological cells with multiple agile **VCSEL** traps

B Shao, S Zlatanovic, M Ozkan, AL Birkbeck, ... - Sensors & Actuators: B. Chemical, 2006 - Elsevier

... Fig. 5. Experimental set-up of **microscope**-integrated micromanipulator based on **VCSELs**. ...

Fig. 7. 4 × 4 **VCSEL** array used for **microscope**-integrated manipulator. ...

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### **[CITATION]** Failure mode analysis of oxide **VCSELs** in high humidity and high temperature

S Xie, RW Herrick, D Chamberlin, SJ Rosner, ... - Journal of Lightwave Technology, 2003 - OSA

[Cited by 15](#) - [Related articles](#) - [BL Direct](#) - [All 9 versions](#)

### Single-fundamental-mode photonic-crystal vertical-cavity surface-emitting lasers

DS Song, SH Kim, HG Park, CK Kim, YH Lee - Applied Physics Letters, 2002 - link.aip.org

... oxide aperture is added to the second generation devices for current confinement;

(b) top view image of the PC-**VCSEL**; (c) scanning electron **microscope** image of ...

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### A micromachined silicon-based probe for a scanning near-field optical **microscope** on-chip

S Bargiel, D Heinis, C Gorecki, A Gorecka- ... - Measurement Science and Technology, 2006 - iop.org

... The novel concept of an integrated scanning near-field optical **microscope** on-chip ...

realized by the use of a vertical-cavity surface-emitting laser (**VCSEL**). ...

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### ... technique for the direct measurement of the local temperature distribution in **VCSELs**

M Dabbicco, V Spagnolo, M Ferrara, G ... - Proceedings of SPIE, 2002 - link.aip.org

... One single experiment has been performed to locally measure the temperature

distribution in **VCSEL** by using a thermal scanning **microscope**. ...

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### ... of vertical-cavity surface-emitting lasers using near-field scanning optical **microscopy**

WC Bradford, JD Beach, RT Collins, DW Kisker ... - Applied Physics Letters, 2002 - link.aip.org

A near-field scanning optical **microscope** was used in collection mode to ... current of

power emission from vertical-cavity surface-emitting lasers (**VCSELs**). ...

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### Manipulation of live cells and inorganic objects with optical micro beam arrays

M Ozkan, S Esener, M Wang - US Patent App. 09/917,139, 2001 - Google Patents

... **VCSEL/ Microscope** Objective 100x, 1.25NA A Motorized Stage /V Dichroic Beamsplitter

M A CCD VJ Page 2. Patent Application Publication Oct. ...

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[Metallic wafer bonding for the fabrication of long-wavelength vertical-cavity surface-emitting ...](#)

HC Lin, KL Chang, KC Hsieh, KY Cheng, WH ... - Journal of Applied Physics, 2002 - link.aip.org

... The bonded **VCSEL** structure maintains a mirror-like surface after the thermal cycle as inspected under a Normaski optical **microscope**. ...

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[\[PDF\] \\*Miniaturized Scanning Near-Field \*\*Microscope\*\* Sensor Based on Optical Feedback Inside a ...](#)

D Heinis, C Gorecki, C Bringer, V Bardinal, T ... - JAPANESE JOURNAL OF APPLIED PHYSICS PART 2 ..., 2003 - charlotte.bringer.free.fr

... the proposed architecture is given. [DOI: 10.1143/JJAP.42.L1469] KEYWORDS:

**VCSEL**, **SNOM microscopy**, optical feedback, microsystems ...

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[\[CITATION\] ... SURFACE-EMITTING LASERS MEASURED BY SCANNING THERMAL \*\*MICROSCOPY\*\*](#)

K Luo<sup>a</sup>, RWH Herrick<sup>b</sup>, A Majumdar, P ... - Microelectromechanical systems:(MEMS), 1996 - American Society of Mechanical Engineers

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